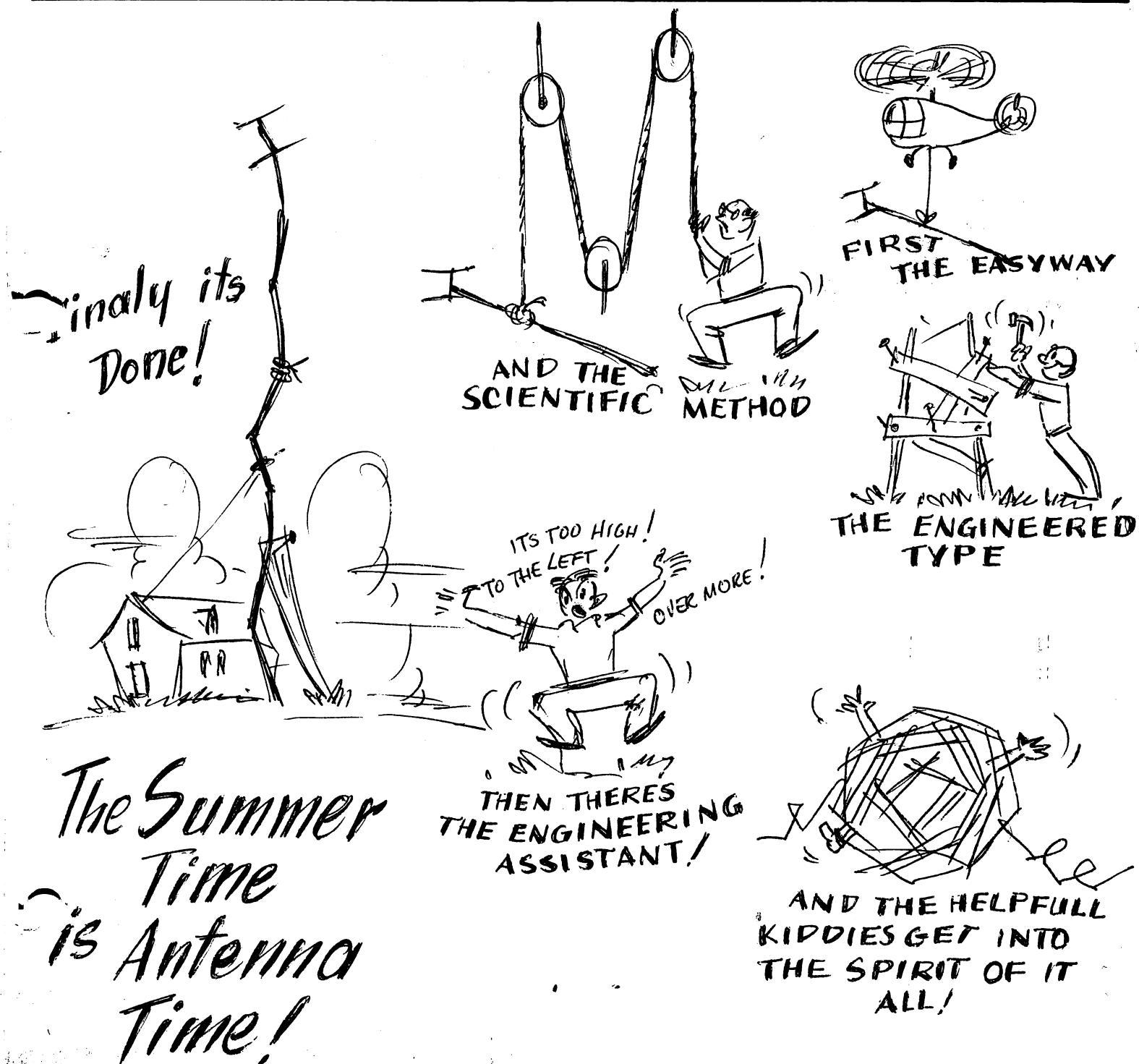




THE BLURB

PHILMONT MOBILE RADIO CLUB INC.

August
1960



THE BLURB

Published Monthly by the Phil-Mont
Phil-Mont Mobile Radio Club, Inc.

VOLUME 10

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No. 8

EDITOR

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King of Prussia, Pa.

STAFF

Publisher	W3WNC
Cartoonist	W3YHV
Technical Editor	W3DOU
Typist	K3JQC
New Members Chairman	W3CDY

CIRCULATION AND PRINTING

Superintendent...W3GOW	Kibitzer...W3AMH
Boss Stitcher....W3JIL	Collater...K3DJE
Printer.....W3WNC	

The "BLURB" is published by and for the members of Phil-Mont to further the interest of Amateur Radio in general and Mobile Radio in particular. We endeavor to keep news accurate, interesting and in a small way, educational. Any deviation from this is unintentional. Copying and quoting is permitted; provided credit lines are included. Commercial use is not permitted and subscriptions are gladly exchanged with other radio clubs.

DEADLINES

The "BLURB" is mailed on the last Monday of the month. All material for the "BLURB" must be received by the Editor, ZPP, before the fifteenth of the month.

1960 CLUB OFFICERS

PRES.	Hymen N. Hecht	W3WNC
V. Pres.	Lloyd Sherman	W3CDY
SEC'Y	Charles Greenwood	W3GOW
TREAS.	Tom Donnelly	W3VCE
BRD. of DIR:	W3's NIP, VVS, QQH, AMH, DOU and all 1960 Club Officers	

MEETINGS

Regular meetings are normally held on the 1st Monday of the month. Check the Calendar at right for the exact date. Meetings are held at the Franklin Institute at 21st Street and the Parkway, starting at 2000 hours. (8.00P.M.)

NET AND NET FREQUENCIES

Ch 1 - 29493 kcs.	Ch 3 - unassigned
Ch 2 - 28626 kcs.	Ch 4 - 50.7 mcs.
Scrambled egg net Weekdays	0730-0830
Ten on Ten Sundays	1000-1100
Blarney Sessions Anytime	Ch 1 or 2
29493 is monitored daily	0930-2400

for the benefit of mobiles in the Phila area.

PMRC CALENDAR OF EVENTS

August 1 Regular Meeting
8 P.M. Franklin Institute
Program: Film

August 17 Mid-Month Meeting
Qth NIP
3666 Wyola Drive
Newtown Square

SEND ALL COMMUNICATIONS FOR THE BLURB
TO THE EDITOR, W3ZPP

THE PREZ SEZ:

The mountain came to Mohammed June 25 and 26 1960.

Mountains of contacts and CQ Field Day. 29493 kc was a mighty popular spot on the 10 meter band. I tuned around the band on several different time intervals and there was activity on the band, but no where like 29493. A compliment to Phil-Mont-that's for sure.

From the sound of things, I think all the fellows on all of the teams must have done quite well for themselves. Everyone seemed to be in there punching and gathering points. It will be no disgrace not to be the winning team this year.

Frank, W3LWQ, our Net Control Station for Field Day, deserves a pat on the back for the fine way he got through the roll call under adverse conditions. As the Navy would say "Well Done" W3LWQ.

de W3WNC

***** * * * * *

Before this paper goes to press
We have the winning scores,
Below you'll find the team that's best
And deserves the most "hurrahs"

D&G.....DJW.....WNC

D&G accumulated 1930 points!!!!!!
Phil-Monts aggregate score was 26034.

* * * * *

JULY MID-MONTH HELD AT SPRING VALLEY

The July Mid-Month meeting of the Phil-Mont Mobile Radio Club was held at the QTH of W3HFD. Frank was on the air to guide the mobiles in and a goodly number showed up for this meeting. W3AK made two suggestions that evening, one very good, one not so hot...Tex, in a pre-meeting session brought up the fact that it might be a good idea to try a vertical-J antenna on a mobile, the other idea was to hold the meeting outdoors. That started out fine, but along about 10:30 it got pretty cool. Frank's XYL Vi, made a friend for life when she called us in for some hot coffee. The meeting was an interesting one, and those of you not in attendance should have been.

* * * * *

ARRL OB 756

During the next few months, FCC Field Offices will adopt new amateur examination procedure with separate answer sheet. Applicant will black in appropriate square to show his choice on the answer sheet, which can then be mechanically graded. Diagram questions will become multiple choice also.

* * * * *

Haven't heard of too many XYL's shocked by the big-money quiz shows being rigged. They have known all along that big money usually means some kind of rig.

(Florida Skip)

APPLICATIONS FOR MEMBERSHIP

J. Henry (Hen) Schaffer, Jr. W3GSU
665 S. Reading Ave., Boyertown, Penna.
Employed in Philadelphia as a Management Consultant.
Mobile on 10 and All bands fixed.
Active in CD.

Nelson (Nels) R. Schurr W3DYP
Operator at W3TKQ
1837 Plymouth Street, Philadelphia, Pa.
Will operate W3TKQ (Franklin Institute) daily as soon as new rig is installed.

Jonathan (Jon) B. Balch K3HWA
311 Quarry Lane, Haverford, Penna.
Mobile on 80, 10, 2 meters
Fixed on 160, 10, 2
Active in CD.
Occupation - Student

Carol (Candy) Ann Rausch K3IFX
Daughter of Hal W3AHP
P.O. Box #411
Richboro, Penna.
Operates between 3 and 10 P.M.

HINTS & KINKS

(Florida Skip)

Here are a few extra uses for the popular "reflected power and SWR bridge".

1. Monitor phone or CW by adding a closed circuit jack in place of meter.
2. RF probe added to input, (a coax with two turns of no. 14 insulated wire) makes it good for checking TVI leakage, also field strength indicator.
3. Add an RF amplifier and an ant. and you have a more sensitive field strength meter.
4. Also good for designing ants. and tuning to resonance, antenna with a grid dip meter as a transmitter and the SWR box as receiver.
5. Audio output power can also be checked without making any noise.
6. Checks modulation too - as needle kicks.

73 KHUGO

CHANGE IN NET DIRECTORY

Lloyd Sherman, W3CDY, announces a change in his business telephone number. It is now VI 3-4000 Ext. 8188.

OCEAN CITY FLASH

I don't mean W3YJM, but this information does stem from W3YJM. If you are in Ocean City New Jersey this summer, with your mobile, looking for a good location, follow 18th Street until it dead ends at the bay. Bear left onto Bay Shore Drive and follow it to a dead end which leaves you with water on three sides and an excellent transmitting and receiving location.

OPERATION "SUICIDE"

(Auto-Call)

What is undoubtedly the most asinine, as well as the most dangerous, of all the hairbrained schemes ever thought up to plague amateur radio has been proposed by the International Center, Albany, New York. Briefly, it proposes that on a certain date all amateur stations start "broadcasting" a message to foreign listeners. The text of the message would be supplied by the International Center and would be of a highly political nature.

If an enemy of amateur radio had schemed for years to dream up a plan to guarantee the certain death of amateur radio, he could not have compounded a more nefarious plot.

In the first place, the FCC prohibits broadcasting by amateur stations. In the second place engaging radio amateurs in a propaganda dissemination program can lead only to antagonizing a block of nations. At International Conferences, amateur radio needs every friendly vote it can muster. To deliberately alienate a group of nations that have in the past been friendly to the institution of amateur radio can be classified as only one thing: "Suicide".

Any amateur radio operator who takes part in this illegal and ill-advised activity will be doing a great and irreparable disservice to amateur radio.

* * * * *

MODEL AIRPLANE MEET AUGUST 21st

Need mobiles for chasing stray model airplanes at a contest similar to National Meet 3 years ago. The place, Johnsville Naval Air Station. All those interested, be sure to come out to the August Meeting of Phil-Mont and sign up with our august Bob, W3QZO... Make this a family affair, bring the kids to the meet.

* * * * *

BALLOON FLIGHT JULY 9th, 1960

W3JIL of Phil-Mont was once again the radio operator of a balloon flight. Sam-Bob, W3QZO and XYL Phyllis, along with Jack W3DJW, Dick K3KDF, Herb W3BPM, Bob W3WBS, all chased W3RQZ/balloon mobile from Valley Forge airport on Saturday, July 9th. W3ZPF again was a big help at the beginning. Take off was at 9:15, and the balloon went down toward the city. QZO took off down route 202, while BPM and UMK went down 320 to the Expressway. DJW conveniently joined the group as the balloon went overhead. Fortunately the wind was light and most of the group, including the two chase cars, had a short get together at a diner in Gloucester after crossing the Walt Whitman bridge. While Al W3JIL, was in good voice and made some contacts, QZO's Walkie-Talkie acted up and we all had trouble reading him. An uneventful descent was made about one mile north of Woodbury, with all the gang on hand to haul them in. Except for W3BPM who had come thru the center city.

de W3UMK

* * * * *

PHOTOSTATS OF LICENSES

It is permissible to reproduce by photostatic process the amateur radio operator and station license. (At one time these were two separate documents, and it was not permissible to reproduce the operator authorization). A Photostatic copy is not legal authority for the "operator aspect" since the original operator license must always be in an operator's possession according to FCC Rules. However, photostatic copy can be used as station authorization - for example, in a mobile. Copying is permitted, per sec. 12.25 of FCC's amateur rules. This provision can be quoted to any firm questioning the propriety of making a copy:

(Licenses--cont'd)

"No recognition shall be accorded to any photocopy of an amateur license; however, nothing in this section shall be construed to prohibit the photocopying for other purposes of any amateur radio operator license."

(ARRL Club Bulletin)

BOY SCOUT CAMPORALL

The Council of Amateur Radio Clubs of Delaware Valley, at the request of the Philadelphia Council, Boy Scouts of America, provided both electronic communications and demonstrations at the Golden Jubilee Camporall held on Belmont Plateau in Fairmount Park July 22, 23 and 24th. A total of ten stations was used to provide communications within the camping area. An additional station was set up to communicate with the Boy Scouts attending the Fiftieth National Boy Scout Jamboree at Colorado Springs, using the call letters K3BSA specially assigned by the Federal Communications Commission for this station. Sixteen radio clubs, and over fifty amateurs (hams) assisted in this effort to demonstrate some of the practical aspects of electronics and amateur radio to the 3,000 Boy Scouts attending the Camporall.

Radio was used to illustrate the role of electronics in partially supplanting such means of communications as wig-wagging or use of blinker signals at night, and last but not least in place of the ubiquitous telephone. In this electronics age, with space communications being successfully sent over a range in millions of miles, a one square mile area was covered by both portable, mobile and walkie-talkie stations operated by the hams of the Delaware Valley to aid the Boy Scouts in conducting their Golden Jubilee Camporall.

Considerable assistance in planning and conducting this communications project has been received from Mr. W. Burnet, W3UFW of the Bell Telephone Company and the City of Philadelphia's Division of Communications Services headed by Arnold F. Grin and assisted by A. Repici, W3FCN, another member of his staff. In addition to the auxiliary generators being lent by the Bell Telephone Company, members of the following radio clubs provided operators and lent equipment for use and demonstration during the Camporall:

Bucks County Radio Club, Bucks-Mont Teen-Agers, Delco, Eastern Penna, Main Line VHF, Mt. Airy VHF, Mobile Six-ers, Oxford Circle, Penn-Jersey YL, Phil-Mont Mobile Radio Club, Short Skip, South Philadelphia, South Jersey and West Philadelphia Radio Association. Two other clubs provided operators for the Camporall: Central High School and North Penn.

Co-Chairman of the Council of Amateur Radio Clubs of Delaware Valley Committee for the Camporall are R.C. Berens, W3UMK, of Bala-Cynwd, and Edith Roemer, W3AAU, of Philadelphia. Committee members include: Harold Carr, W3JFI of Bristol, (President of the Council of Amateur Radio Clubs); John Harris, W3AYG of Philadelphia (Vice-President of the Council); George Walker, K3EZJ of Haverford; E.W. Haldeman, W3PST of Philadelphia; L. Tonyk, W3DVB of Philadelphia; R. High, W3IIO of Telford; Charles Meyer, K3DLX of Philadelphia; Jon Balch, K3HMX of Merion; J. Mahoney, W3DJW of Philadelphia; Fred Serota, K3REX of Philadelphia; A.W. Campaglia, Jr., W3VSD of Philadelphia; Harold Grace, W3HFX of Havertown; Elaine Watts, K3JSP of Hatfield; G.A. Ryan, K2IEI of Collingswood, N.J.; W.E. Burnet, Jr., W3UFW of Havertown; A. Repici, W3FCN of Philadelphia.

de W3UMK

FRANKLIN INSTITUTE MEMO

Thanks to Phil Allen and the Franklin Institute all the members of Phil-Mont received a report on what is being done in the way of arrangements of antennas on the roof of the Franklin Institute. The Phil-Mont vertical should certainly improve stations signals for the mobiles.

1960 - By W3BS

SOME NOTES ON LIGHTNING

During a thunder-storm the positive and negative charges in a cloud are separated, the negative charges usually concentrating in the lower portion. A cloud with negative charges in its base produces positive charges in the ground below, by induction. While we usually think of lightning as a turmoil of charges in the clouds overhead, there is a similar turmoil in the ground under our feet during a thunder-storm.

When the charge reaches a sufficiently high level, the stroke of lightning usually starts at the cloud and proceeds toward the earth in a series of steps. As the step "leader" moves downward it builds up an extremely high voltage. The stroke hesitates between each one of its forward steps and may move a distance of 150 feet in each of its motions toward the earth. It picks out the best route as it goes along, never following a predetermined path. As the continuing streamer approaches the earth, negative charges from the cloud also approach the earth using the streamer channel as a means of travel. Surrounding this channel is what is called a negative space charge. As the streamer approaches closer toward the point about to be struck, and these charges in the earth's surface become more and more intense until eventually, streamers may form from the surface of the earth, and often the down-coming leaders will make contact with one of these streamer. Its final point of contact depends upon conditions close to the earth's surface and upon ground resistance.

The above conditions usually prevail in areas in which there are not tall conducting structures. However, in a skyscraper area, strokes frequently start at the ground and proceed from the top of a skyscraper up into the cloud in a series of steps similar to those which occur when the action is in the opposite direction.

The answers to the questions which follow were provided by Mr. Hagenguth of the High Voltage Engineering Laboratory of the General Electric Company in connection with a particular problem concerning the hazards involved in radio transmitting antennas. Nevertheless, the information may be of some general interest.

Q - There are thousands of broadcast receiving antennas - some grounded and others not grounded - strung above the roofs of homes and, in many cases, above surrounding objects. It is rare to hear of one of these antennas being struck by lightning. Why?

A - "The fact that most of the antennas are not struck is attributable to the statistical distribution of lightning. In other words, the chance of any one structure being hit - particularly of low height - is very small. We know, however, that in many cases where houses were struck, the broadcast receiving antenna was involved, with subsequent damage to the radio receiver. It is just as rare to hear of a house being struck by lightning as to hear of one of the antennas being struck."

Q - Inasmuch as amateur transmitting antennas are usually at a greater elevation than broadcast receiving antennas, it is presumed that there is an appreciably greater chance of the former being struck by lightning. Based on G. E.'s studies of lightning striking tall structures, is it possible to express the degree of chance involved in lightning striking a beam antenna above the roof of a house, the beam at a height of 45 to 50 feet from the ground and in the clear as far as surrounding objects are concerned?

A - "There should not be much difference between the chance of an amateur broadcast antenna being struck than an ordinary broadcast receiving antenna. As height increases, the chance of being struck increases somewhat, but the increase is very slow.

Q - What is the nature and magnitude of the voltage and current involved in a direct hit?

A - "The nature of the voltage and current involved in a direct hit is of an impulsive character. The current rises in somewhere between 0.5 and 10 microseconds and decreases to half value in somewhere between 5 and 100 microseconds. The amplitude of the currents is at the average 15,000 amperes, but may be as high as 200,000 amperes. The resulting voltages depend on the ground resistance at the point struck. They may develop as high as ten million volts or more."

Q - What protection, if any, does a grounded antenna afford to the surroundings during a heavy thunder-storm? Is it effective in "draining off" the high voltage charge and if so, does this function represent a real degree of protection?

A - "The draining off of high voltage charge is insignificant and does not in our opinion - which is backed by facts - eliminate direct strokes to a grounded antenna and does not minimize the chances of being struck. The best example is the fact that transmission lines, which have steel towers and ground wires and, therefore, should be an excellent drainage system, are struck as often as once per mile per year."

Q - From the standpoint of protection to an amateur radio antenna and station, is a metal antenna supporting mast, anchored in the ground, appreciably safer than a wooden mast anchored in the ground or a wooden mast supported on the roof of a house? What grounding facilities are recommended in the case of the wooden supports?

A - "There is no difference between a metal antenna supporting mast and a wooden mast providing good grounds are installed on either. In the case of the wooden mast, of course, the ground has to be provided by grounding cables with ground resistance of the system of about 10 ohms. The ground leads in case of wooden masts should be placed as high up on the masts as possible to prevent shattering of the masts."

Q - What are some of the characteristics and peculiarities of lightning that an amateur radio operator should be familiar with in considering protection for antenna, mast, equipment and home?

A - "The principal considerations for protection are a good ground, interconnection with other grounds available nearby and the ground cable should be at least No. 6 wire - preferably greater - to avoid severance of the conductors due to weathering. The different lightning characteristics do not necessarily have to be taken into consideration."

PHIL-MONT MOBILE RADIO CLUB
1960 FIELD DAY RESULTS

Total Mobile Aggregate score : 26,034 points

Highest scoring mobile : W3DSG - 1,930 points

Team Scores :

Winning team	W3DSG, DJW, WNC	= 3,954
2nd place	W3YHV, K3DJE, GNM	= 3,402
3rd place	W3LEM, IVD, K3CJC	= 2,173
4th place	W3GOW, AK, K3GNJ	= 1,984
5th place	W3QQH, VVS, NIP	= 1,958
6th place	W3FWI, FOG, K3HIJ	= 1,889
7th place	W3AJC, PWG, AWH	= 1,741

Second highest scoring mobile : W3SRU

(not included on any team score)

CHANNEL CHATTER

W3BSG Nat...products engineer for McGraw-Hill received a first award in national competition in design, Master International Designer-congrats Nat....W3SAI's eldest son received notification from Marple-Newtown High School that he graduated first in his class. Larry will enter Dartmouth this Fall, stick out your chest John....W3LEM and K3GBA checking out Sam's new Kreco vertical....K3CJC and W3IVD will be monitoring Phil-Mont from new QTH Edgewater Maryland, as of this fall, we'll miss you at the Phil-Mont meetings....Seen at the ARRL Hamfest, Hershey, were W3DEJ, DJW, OWK....W3FOG overheard one of his children (8 yrs) say to the other harmonic (10 yrs) Let's play Hy and Austin. Upon listening further, the game turned out to be a completely incoherent QSO between FOG and WNC....W3DQG missing Mid-MonhhQQH came in shorts and orchids then only stayed five minutes....W3UMK might be a good man to know, one of his friends Don W1HGP, attended the New England ARRL convention at Swampscott, Mass and walked off with the grand prize....W3YHV will be one of the 10-on-10 Net Control Stations, give a listen for that smile....Fred W3ADV, back from the coastal vacation and back on 29493....Keep the frequency hot....Hal W3AHP, made it out to Mid-Month, keep up the good work....W3AWH left his charges at Delmont to come out to Phil-Mont....Be sure to note the change in W3CDY's business phone elsewhere in this issue....W3CNO up on 160 meters....K3DJE finally punched the hole in that new Olds....W3EQV monitoring 29493 from Cape May, who do you hear Ed....W3FOG meeting W3FWI in Lintons....K3GBA Sam Smith, sounds like a phoney name to me....K3GIM looking over 6 meters....W3GOW Bench-mobile....W3IRS taking time out to drop ye editor a note, thanks Frenchy....W3LEM looking into a shielded wire set-up for mobiles, when you get the facts Ed, drop the ELURB a line....W3LWQ doing his usual good job as NCS....W3NIP having the August Mid-Month....W3PWG new mobile set-up sounds fine business....W3PXY ???? gathering Popsicles....W3QZO going from model radios to model airplanes....W3VCE is missing....W3VKN out after a long absence....W3WNC always on frequency....W3YJM checking in from Ocean City....Remember to keep 29493 hot and active lots of people look for Phil-Mont when all other frequencies are vacationing....To W3YJM Three Phil-Monters got you know what and are using you know what....

SWAP AND SHOP

For Sale: Full 20 meter beam complete with aluminum mast...proceeds to Phil-Mont

\$ 10.00 W3QQH

Gordon Rotator with built-in selsyn, direction indicator and control.

original value over \$200.00 \$15.00 W3QQH...proceeds to Phil-Mont

-- ft R G 80 coaxial cable. highest offer received before 17 August
proceeds to Phil-Mont W3WNC

Hy Gain trap vertical antenna model 14-AU for 10-15-20-40 M new in carton
value \$27.95. highest offer received before 17 August proceeds to Phil-Mont

Heath MP-1 Transistorized power supply 600 V-200 MA with factory debugging
components and instructions W3EXY or W3QQH \$35.00

6 cubic foot Westinghouse Refrigerator good condition \$25.00 W3YHV

10 EIMAC 304 TL's Brand New in original cartons \$5.00 each W3WNC

Pentron Champion Tape Recorder 2 speed, fast forward, fast reverse, erase
etc. \$85.00 W3WNC

B & W Grid Dip meter complete with coils and working \$15.00 W3WNC

Wanted: for Franklin Institute Base Station 2 matching 3 inch square meters
0-15 MA and 0-300 or 0-500 MA State price & type W3QQH

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A Phil-Mont Mobile Radio
Club Publication
2242 Cambridge Road, Broomall, Pa.
August 1960

RETURN POSTAGE GUARANTEED
Form 3547 Requested



T I M E V A L U E

MEETING NOTICE

C. R. Spencer W9QNH
124 Central Ave.
North Hills Pa. R